

RHIC & AGS Users' Organization

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**Iowa State University
Chair, Users' Executive Committee
RHIC-AGS Users' Group**

**Annual DOE RHIC Science and Technology Review
July 24-6, 2006**

BNL Resources for RHIC Users

RHIC & AGS Users' Group --

An organization of scientists who make use of BNL's RHIC, AGS, National Space Radiation Lab (NSRL), Tandems and Accelerator Test Facility (ATF).

RHIC & AGS Users' Executive Committee (UEC) --

The elected and appointed representatives of the Users' Group

RHIC & AGS Users' Center --

Established in April 2000. Assists users in obtaining visas and approval for site access, accomplishing required safety training and dealing with quality of life issues. Works with BNL management to implement regulations. Organizes UEC and users' meetings.

Thanks, Thanks, and more Thanks

Tax Payers: We thank the governments of the U.S., Japan, and many other nations for providing the resources to support users.

U.S. DOE: We thank Secretary Bodman for his emphasis on basic research in the physical sciences. We thank Ray Orbach and Dennis Kovar for their continuous strong support of RHIC.

Renaissance Technologies: We thank Jim Simons and friends at Renaissance Technologies for providing the additional funds to allow a successful Run-6 at RHIC.

Users' Center staff: We thank Susan White de Pace, Angela Melocoton, Kelly Guiffreda, and Regina Robinson for dedicated, professional, and friendly service to all users.

User Demographics by Position

Category of User

As of July 2006

Total

1656

Total RHIC

1011

RHIC Faculty/Staff

551

RHIC Student

318

RHIC Postdoc

67

RHIC Remote User

75

Other (AGS, ATF, NSRL, TANDEM)

645

User Demographics by Experiment

Collaboration

July 2006

Total RHIC Users

1011

PHENIX

473

STAR

427

PHOBOS

46

BRAHMS

50

eRHIC

13

RIKEN

2

RHIC Peer-Reviewed Publications

<u>Year</u>	<u>Total RHIC</u>	<u>PRL</u>	<u>PRC</u>	<u>PRD</u>	<u>PLB</u>	<u>JPG NPA</u>
RHIC Totals	135	80	39	2	8	6
2000	1	1	0	0	0	0
2001	15	13	1	0	1	0
2002	20	14	6	0	0	0
2003	23	17	3	0	3	0
2004	32	15	14	0	2	1
2005	31	13	12	1	1	4
2006	13	7	3	1	1	1

RHIC Ph.D. Theses

<u>Year</u>	<u>Ph.D. Theses</u>
RHIC Totals	131
2000	4
2001	9
2002	24
2003	25
2004	29
2005	31
2006	9

2006 RHIC User Awards

Thesis Awards at User Meeting:

Ubaldo Iriso Ariz, Barcelona, SPAIN

RHIC, Accelerator Physics

Thesis: “Electron Clouds in the Relativistic Heavy Ion Collider”

Ann Sickles, SUNYSB

RHIC-PHENIX

Thesis: “Azimuthal Correlation and Conditional Yield Measurements at 200 GeV in Au+Au, d+Au and p+p Collisions at RHIC”

Poster Award at User Meeting:

Jeffrey Wood, UCLA

Poster: “Polarimetry at AGS and RHIC”

Users' Group and UEC Meetings

Annual Users' Meeting

(most recent June 5-9, 2006)

Four Open Forum Meetings per year:

April APS Meeting (2006 in Dallas)

(2007 in Jacksonville)

Fall DNP (2005 Joint with JPS in Maui)

(2006 in Nashville)

December at BNL

Annual Users' Meeting Near End of RHIC Run

Monthly UEC Meetings (teleconferences at BNL)

RHIC-AGS Annual Users' Meeting on 6-(5-9)-2006

Monday and Wednesday, June 5 - 7:

Topical Workshops: 9 RHIC and 1 AGS
(Included both Experiment and Theory)

Thursday, June 8, Plenary Sessions:

- Latest Results from RHIC on both Spin and Heavy Ions
- Open Forum to Solicit User Input
- Reports from Funding Agencies and BNL Management
- Talks on Future of Nuclear and High Energy Physics
- Elections, Annual Thesis and Poster Awards

Friday, June 9, Plenary Sessions:

- Overview of Workshops
- Spin Crisis in the Parton Model
- Possible Studies of QCD Critical Point
- Afternoon Session on RHIC and Experiment Upgrades

2006 RHIC-AGS Users' Meeting Workshops

Nine RHIC plus One AGS Workshops:

- 1: The Helicity Structure of the Nucleon - 52
- 2: EM Radiation / Low-Mass Dileptons - 54
- 3: From High μ_B to High Energy - 37
- 4: Quarkonium Production - 58
- 5: Hadronization - 55
- 6: Transverse Spin - 49
- 7: Accelerator Aspects of Energy Scans - 26
- 8: How Perfect is this Matter? – the success and new challenges of Hydrodynamics at RHIC – 61
9. Interactions Between Hard Probes and the Bulk – 68
10. Dipole Moments in Storage Rings - 24

164 Registered for Thursday and Friday plenary sessions.

232 Total Participants

UEC Chairs in the Era of RHIC

Since 2002, UEC Chairs Serve Staggered 3-year Terms

Vicki Greene, Vanderbilt

Chair-Elect 2002-3, Chair 2003-4, Past Chair 2004-5

Gary Westfall, MSU

Chair-Elect 2003-4, Chair 2004-5, Past Chair 2005-6

Brant Johnson, BNL

Chair-Elect 2004-5, Chair 2005-6, Past Chair 2006-7

John Hill, Iowa State

Chair-Elect 2005-6, Chair 2006-7, Past Chair 2007-8

Rene Bellwied, Wayne State

Chair-Elect 2006-7, Chair 2007-8, Past Chair 2008-9

2006 UEC Election Results

Chair-Elect 3-year term:	Rene Bellwied, Wayne State
UEC Member 3-year term:	Helen Caines, Yale James Sowinski, Indiana Charles Whitten, UCLA
UEC Member 2-year term:	Michael Murray, Kansas Cornelius Onderwater, Groningen
Student/Postdoc Reps. 1-year term:	Sarah Campbell, SUNYSB Christine Nattrass, Yale

2006 UEC Continuing Members

Brant Johnson, BNL, Past-Chair
John Hill, Iowa State, Chair
Abhay Deshpande, SUNYSB
Barbara Erazmus, Subatech
Matthias Grosse Perdekamp, UIUC
John Lajoie, Iowa State
Bill Morse, BNL
Greg Nelson, Loma Linda
George Stephans, MIT
Julia Velkovska, Vanderbilt

Major Concerns of RHIC User Community

1. FUNDING for Research (groups and nations)
FUNDING for RHIC and Detector Operations
FUNDING for RHIC and Detector Upgrades
FUNDING for long-term future (RHIC II, e-RHIC)
2. Visa Issues and Approval for BNL Site Access:
Of 1045 RHIC Users, only 333 are U.S.,
while 712 (69%) are non-U.S.
Currently about 230 RHIC “sensitive” country users:
Russia, China, India, Israel, Taiwan, Pakistan, Georgia,
and Ukraine.
3. Quality of Life at BNL.
4. Staying abreast of changing rules and regulations.

UEC Reorganization into Working Groups

Site Access and Science (SAS) (Susan)

- Physical Access (Visa, Guest Appointment, Gate Access)
- Computer Access (Cybersecurity, Scientific Computing)
- Scientific Computing and Data Transfer Issues

Funding, Politics and Programmatics (FPP) (John)

- Funding: Facility Operations, Research, and User Support.
- Political Action: Interactions with DOE, OSTP, OMB, Congress

Meetings, Communications and Outreach (MCO) (Rene)

- Annual Users' Meeting and Semi-annual Users' Group Meetings
- Quarterly Open Forums and Monthly UEC Meetings.

Quality of Life (QOL) (Brant)

- Housing and Transportation; Recreation and Socialization
- Site Enhancements (better lighting, foot paths, maintenance)
- Agenda Input for Open Forums at BNL and User Group Meetings
- Liaisons to Association for Students And Postdocs (ASAP)

Interaction with Congress and Administration

- UEC Chairs met with OMB and OSTP staffers (10-17-05).
- Letters to Secretary Bodman from University Presidents. Got 8 letters from Presidents plus many letters from research administrators outside the U.S.
- UEC Chairs met with Congressional and OMB-OSTP staffers (3-20-06).
- Participation in Congressional Visits Day (3-28-06). Visited 18 Congressional Offices of which 7 were to members on Energy and Water Appropriation Committees.
- Attended National User Facility Organization (NUFO) meeting (3-28-06) to coordinate activities with other User Organizations.

Congressional Offices Visited on CVD

House

Doolittle-California-Hafer AP
Edwards-Texas-Towell AP
Hobson-Ohio-Lisa AP
Latham-Iowa-Hill AP
Neugebauer-Texas-Towell
Wamp-Tennessee-Sorensen AP
Waxman-California-Hafer

AP = Energy & Water Appropriations
Committee Member

Senate

Alexander-Tennessee-Sorensen
Bayh-Indiana-Sowinski
Bingaman-N. Mex.-Fields
Cornyn-Texas-Towell
Dewine-Ohio-Lisa
Domenici-N. Mex.-Fields AP
Grassley-Iowa-Hill
Harkin-Iowa-Hill
Hutchison—Texas—Towell AP
Lugar—Indiana—Sowinski
Voinovich—Ohio--Lisa

Plans For This Year

- 1. Letters of thanks to members of Congressional Energy and Water Appropriations Committees.
- 2. Production of one page flier for OSTP and OMB illustrating why RHIC upgrades exciting even in LHC era.
- 3. UEC Chair Trips to Washington DC (Fall 2006 and Spring 2007)
- 4. Major turnout for 2007 Congressional Visits Day (target Energy and Water Appropriations Committees)
- 5. NUFO Meeting
- 6. Whatever else needs to be done!